Home   **Paracel BLAST Results**   **Help**

MEGABLAST 1.2.3-Paracel [2001-11-20]

Reference:
Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),
"A greedy algorithm for aligning DNA sequences",
J Comput Biol 2000; 7(1-2):203-14.
Database: Homo_sapiens.latestgp.fa
        26,679 sequences; 200,800,637,119 total letters

Query= LEX 71 SEQ ID
ATGACATCTAAGAATTATCCCGGGACCTACCCCAATCACACTGTTTGCGAAAAGACAATT
      (1404 letters)

	Score	E
Sequences producing significant alignments:	(bits)	Value
Z85999.1.1.100808	<u>432</u>	e-118
BX284630.7.1.191878	<u>432</u>	e-118

>Z85999.1.1.100808
        Length = 100808

 Score = 432 bits (218), Expect = e-118
 Identities = 218/218 (100%)
 Strand = Plus / Plus

```
Query: 544    ggttgcagcagatccttgagttttgaacctgacgggcaaatcagagcttcttcctcatgg 603
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 51085  ggttgcagcagatccttgagttttgaacctgacgggcaaatcagagcttcttcctcatgg 51144

Query: 604    cagtcggtcaatgagagtggagaccaagttcactggtctcctggccaagcccgacttcag 663
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 51145  cagtcggtcaatgagagtggagaccaagttcactggtctcctggccaagcccgacttcag 51204

Query: 664    gaccaaggcccatcatgggcttcgggcgacagtagcaacaaccacaaaccacgagagtgg 723
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 51205  gaccaaggcccatcatgggcttcgggcgacagtagcaacaaccacaaaccacgagagtgg 51264

Query: 724    ctggagatcgatttggggggagaaaaagaaaataacagg 761
              |||||||||||||||||||||||||||||||||||||||
Sbjct: 51265  ctggagatcgatttggggggagaaaaagaaaataacagg 51302
```

 Score = 303 bits (153), Expect = 2e-79
 Identities = 153/153 (100%)
 Strand = Plus / Plus

```
Query: 884    aggtgtttcagggtaactctaactttcgggacccagtgcaaaacaatttcatccctccca 943
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 53132  aggtgtttcagggtaactctaactttcgggacccagtgcaaaacaatttcatccctccca 53191
```

```
Query: 944    tcgtggccagatatgtgcgggttgtcccccagacatggcaccagaggatagccttgaagg 1003
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 53192  tcgtggccagatatgtgcgggttgtcccccagacatggcaccagaggatagccttgaagg 53251


Query: 1004   tggagctcattggttgccagattacacaaggta 1036
              |||||||||||||||||||||||||||||||||
Sbjct: 53252  tggagctcattggttgccagattacacaaggta 53284
```

 Score = 270 bits (136), Expect = 2e-69
 Identities = 136/136 (100%)
 Strand = Plus / Plus

```
Query: 109    ggtccatactgtggaagtatgactgttcccaaagaactcttgttgaacacaagtgaagta 168
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 32281  ggtccatactgtggaagtatgactgttcccaaagaactcttgttgaacacaagtgaagta 32340


Query: 169    accgtccgctttgagagtggatcccacatttctggccggggtttttgctgacctatgcg 228
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 32341  accgtccgctttgagagtggatcccacatttctggccggggtttttgctgacctatgcg 32400


Query: 229    agcagcgaccatccag 244
              ||||||||||||||||
Sbjct: 32401  agcagcgaccatccag 32416
```

 Score = 266 bits (134), Expect = 3e-68
 Identities = 134/134 (100%)
 Strand = Plus / Plus

```
Query: 370    acctctttattgtgcaaagctgccatccatgcaggaataattgctgatgaactaggtggc 429
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 44726  acctctttattgtgcaaagctgccatccatgcaggaataattgctgatgaactaggtggc 44785


Query: 430    cagatcagtgtgcttcagcgcaaagggatcagtcgatatgaagggattctggccaatggt 489
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 44786  cagatcagtgtgcttcagcgcaaagggatcagtcgatatgaagggattctggccaatggt 44845


Query: 490    gttctttcgaggga 503
              ||||||||||||||
Sbjct: 44846  gttctttcgaggga 44859
```

 Score = 256 bits (129), Expect = 3e-65
 Identities = 129/129 (100%)
 Strand = Plus / Plus

```
Query: 759    aggaattaggaccacaggatctacacagtcgaacttcaactttttatgttaagagttttgt 818
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 51719  aggaattaggaccacaggatctacacagtcgaacttcaactttttatgttaagagttttgt 51778


Query: 819    gatgaacttcaaaaacaataattctaagtggaagacctataaaggaattgtgaataatga 878
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 51779  gatgaacttcaaaaacaataattctaagtggaagacctataaaggaattgtgaataatga 51838


Query: 879    agaaaaggt 887
              |||||||||
Sbjct: 51839  agaaaaggt 51847


  Score =  248 bits (125), Expect = 8e-63
  Identities = 125/125 (100%)
  Strand = Plus / Plus


Query: 1277   cagactgttggaagcagattaaatatcccttttgccagacatcagtcagctgagtttacca 1336
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 57941  cagactgttggaagcagattaaatatcccttttgccagacatcagtcagctgagtttacca 58000


Query: 1337   tcagctatgataatgagaaggagatgacacaaaagttagatctcatcacaagtgatatgg 1396
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 58001  tcagctatgataatgagaaggagatgacacaaaagttagatctcatcacaagtgatatgg 58060


Query: 1397   caggt 1401
              |||||
Sbjct: 58061  caggt 58065


  Score =  220 bits (111), Expect = 2e-54
  Identities = 111/111 (100%)
  Strand = Plus / Plus


Query: 1      acagtaccaaaggggaaaagactgattctgaggttgggagatttggatatcgaatcccag 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 16337  acagtaccaaaggggaaaagactgattctgaggttgggagatttggatatcgaatcccag 16396


Query: 61     acctgtgcttctgactatcttctcttcaccagctcttcagatcaatatggt 111
              |||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 16397  acctgtgcttctgactatcttctcttcaccagctcttcagatcaatatggt 16447


  Score =  220 bits (111), Expect = 2e-54
  Identities = 111/111 (100%)
  Strand = Plus / Plus


Query: 1032   aggtaatgattcattggtgtggcgcaagacaagtcaaagcaccagtgtttcaactaagaa 1091
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Sbjct: 53382 aggtaatgattcattggtgtggcgcaagacaagtcaaagcaccagtgtttcaactaagaa 53441


Query: 1092  agaagatgagacaatcacaaggcccatcccctcggaagaaacatccacagg 1142
             |||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 53442 agaagatgagacaatcacaaggcccatcccctcggaagaaacatccacagg 53492



  Score =  180 bits (91), Expect = 2e-42
  Identities = 91/91 (100%)
  Strand = Plus / Plus


Query: 1140  aggaataaacattacaacggtggctattccattggtgctccttgttgtcctggtgtttgc 1199
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 55588 aggaataaacattacaacggtggctattccattggtgctccttgttgtcctggtgtttgc 55647


Query: 1200  tggaatggggatctttgcagcctttagaaag 1230
             |||||||||||||||||||||||||||||||
Sbjct: 55648 tggaatggggatctttgcagcctttagaaag 55678



  Score =  151 bits (76), Expect = 1e-33
  Identities = 76/76 (100%)
  Strand = Plus / Plus


Query: 294   cagcaaattctgcccagctggttgtagagacgtagcaggagacatttctgggaatatggt 353
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 37825 cagcaaattctgcccagctggttgtagagacgtagcaggagacatttctgggaatatggt 37884


Query: 354   agatggatatagagat 369
             ||||||||||||||||
Sbjct: 37885 agatggatatagagat 37900



  Score =  109 bits (55), Expect = 5e-21
  Identities = 55/55 (100%)
  Strand = Plus / Plus


Query: 242   cagatttaataacatgtttggaacgagctagccattatttgaagacagaatacag 296
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 33988 cagatttaataacatgtttggaacgagctagccattatttgaagacagaatacag 34042



  Score = 91.7 bits (46), Expect = 1e-15
  Identities = 49/50 (98%)
  Strand = Plus / Plus


Query: 1230  gaagaagaagaaaggaagtccgtatggatcagcggaggctcagaaaacag 1279
             ||||||||||||||||||||||||||||||| |||||||||||||||||||
Sbjct: 56994 gaagaagaagaaaggaagtccgtatggatcagcagaggctcagaaaacag 57043
```

```
Score = 85.7 bits (43), Expect = 7e-14
Identities = 43/43 (100%)
Strand = Plus / Plus


Query: 504    tggttccctgtcagacaagcgatttctgtttacctccaatggt 546
              |||||||||||||||||||||||||||||||||||||||||||
Sbjct: 49651 tggttccctgtcagacaagcgatttctgtttacctccaatggt 49693
```

>BX284630.7.1.191878
          Length = 191878

```
Score =  432 bits (218), Expect = e-118
Identities = 218/218 (100%)
Strand = Plus / Minus


Query: 544     ggttgcagcagatccttgagttttgaacctgacgggcaaatcagagcttcttcctcatgg 603
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 147574 ggttgcagcagatccttgagttttgaacctgacgggcaaatcagagcttcttcctcatgg 147515


Query: 604     cagtcggtcaatgagagtggagaccaagttcactggtctcctggccaagcccgacttcag 663
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 147514 cagtcggtcaatgagagtggagaccaagttcactggtctcctggccaagcccgacttcag 147455


Query: 664     gaccaaggcccatcatgggcttcgggcgacagtagcaacaaccacaaaccacgagagtgg 723
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 147454 gaccaaggcccatcatgggcttcgggcgacagtagcaacaaccacaaaccacgagagtgg 147395


Query: 724     ctggagatcgatttggggggagaaaaagaaaataacagg 761
               |||||||||||||||||||||||||||||||||||||||
Sbjct: 147394 ctggagatcgatttggggggagaaaaagaaaataacagg 147357



Score =  303 bits (153), Expect = 2e-79
Identities = 153/153 (100%)
Strand = Plus / Minus


Query: 884     aggtgtttcagggtaactctaactttcgggacccagtgcaaaacaatttcatccctccca 943
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 145527 aggtgtttcagggtaactctaactttcgggacccagtgcaaaacaatttcatccctccca 145468


Query: 944     tcgtggccagatatgtgcgggttgtcccccagacatggcaccagaggatagccttgaagg 1003
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 145467 tcgtggccagatatgtgcgggttgtcccccagacatggcaccagaggatagccttgaagg 145408


Query: 1004    tggagctcattggttgccagattacacaaggta 1036
               |||||||||||||||||||||||||||||||||
```

```
Sbjct: 145407 tggagctcattggttgccagattacacaaggta 145375



  Score =  270 bits (136), Expect = 2e-69
  Identities = 136/136 (100%)
  Strand = Plus / Minus


Query: 109    ggtccatactgtggaagtatgactgttcccaaagaactcttgttgaacacaagtgaagta 168
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 167580 ggtccatactgtggaagtatgactgttcccaaagaactcttgttgaacacaagtgaagta 167521


Query: 169    accgtccgctttgagagtggatcccacatttctggccggggtttttttgctgacctatgcg 228
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 167520 accgtccgctttgagagtggatcccacatttctggccggggtttttttgctgacctatgcg 167461


Query: 229    agcagcgaccatccag 244
              ||||||||||||||||
Sbjct: 167460 agcagcgaccatccag 167445



  Score =  266 bits (134), Expect = 3e-68
  Identities = 134/134 (100%)
  Strand = Plus / Minus


Query: 370    acctctttattgtgcaaagctgccatccatgcaggaataattgctgatgaactaggtggc 429
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 155137 acctctttattgtgcaaagctgccatccatgcaggaataattgctgatgaactaggtggc 155078


Query: 430    cagatcagtgtgcttcagcgcaaagggatcagtcgatatgaagggattctggccaatggt 489
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 155077 cagatcagtgtgcttcagcgcaaagggatcagtcgatatgaagggattctggccaatggt 155018


Query: 490    gttctttcgaggga 503
              ||||||||||||||
Sbjct: 155017 gttctttcgaggga 155004



  Score =  256 bits (129), Expect = 3e-65
  Identities = 129/129 (100%)
  Strand = Plus / Minus


Query: 759    aggaattaggaccacaggatctacacagtcgaacttcaacttttatgttaagagttttgt 818
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 146940 aggaattaggaccacaggatctacacagtcgaacttcaacttttatgttaagagttttgt 146881


Query: 819    gatgaacttcaaaaacaataattctaagtggaagacctataaaggaattgtgaataatga 878
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 146880 gatgaacttcaaaaacaataattctaagtggaagacctataaaggaattgtgaataatga 146821
```

```
Query: 879      agaaaaggt 887
                |||||||||
Sbjct: 146820   agaaaaggt 146812
```

```
 Score =  248 bits (125), Expect = 8e-63
 Identities = 125/125 (100%)
 Strand = Plus / Minus
```

```
Query: 1277   cagactgttggaagcagattaaatatccctttgccagacatcagtcagctgagtttacca 1336
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 140685 cagactgttggaagcagattaaatatccctttgccagacatcagtcagctgagtttacca 140626
```

```
Query: 1337   tcagctatgataatgagaaggagatgacacaaaagttagatctcatcacaagtgatatgg 1396
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 140625 tcagctatgataatgagaaggagatgacacaaaagttagatctcatcacaagtgatatgg 140566
```

```
Query: 1397   caggt 1401
              |||||
Sbjct: 140565 caggt 140561
```

```
 Score =  220 bits (111), Expect = 2e-54
 Identities = 111/111 (100%)
 Strand = Plus / Minus
```

```
Query: 1       acagtaccaaaggggaaaagactgattctgaggttgggagatttggatatcgaatcccag 60
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 183524  acagtaccaaaggggaaaagactgattctgaggttgggagatttggatatcgaatcccag 183465
```

```
Query: 61      acctgtgcttctgactatcttctcttcaccagctcttcagatcaatatggt 111
               |||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 183464  acctgtgcttctgactatcttctcttcaccagctcttcagatcaatatggt 183414
```

```
 Score =  220 bits (111), Expect = 2e-54
 Identities = 111/111 (100%)
 Strand = Plus / Minus
```

```
Query: 1032    aggtaatgattcattggtgtggcgcaagacaagtcaaagcaccagtgtttcaactaagaa 1091
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 145277  aggtaatgattcattggtgtggcgcaagacaagtcaaagcaccagtgtttcaactaagaa 145218
```

```
Query: 1092    agaagatgagacaatcacaaggcccatcccctcggaagaaacatccacagg 1142
               |||||||||||||||||||||||||||||||||'|||||||||||||||||
Sbjct: 145217  agaagatgagacaatcacaaggcccatcccctcggaagaaacatccacagg 145167
```

```
 Score =  180 bits (91), Expect = 2e-42
 Identities = 91/91 (100%)
 Strand = Plus / Minus


Query: 1140    aggaataaacattacaacggtggctattccattggtgctccttgttgtcctggtgtttgc 1199
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 143070 aggaataaacattacaacggtggctattccattggtgctccttgttgtcctggtgtttgc 143011


Query: 1200    tggaatggggatctttgcagcctttagaaag 1230
               |||||||||||||||||||||||||||||||
Sbjct: 143010 tggaatggggatctttgcagcctttagaaag 142980



 Score =  151 bits (76), Expect = 1e-33
 Identities = 76/76 (100%)
 Strand = Plus / Minus


Query: 294     cagcaaattctgcccagctggttgtagagacgtagcaggagacatttctgggaatatggt 353
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 162035 cagcaaattctgcccagctggttgtagagacgtagcaggagacatttctgggaatatggt 161976


Query: 354     agatggatatagagat 369
               ||||||||||||||||
Sbjct: 161975 agatggatatagagat 161960



 Score =  109 bits (55), Expect = 5e-21
 Identities = 55/55 (100%)
 Strand = Plus / Minus


Query: 242     cagatttaataacatgtttggaacgagctagccattatttgaagacagaatacag 296
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 165873 cagatttaataacatgtttggaacgagctagccattatttgaagacagaatacag 165819



 Score = 91.7 bits (46), Expect = 1e-15
 Identities = 49/50 (98%)
 Strand = Plus / Minus


Query: 1230    gaagaagaagaaaggaagtccgtatggatcagcggaggctcagaaaacag 1279
               ||||||||||||||||||||||||||||||| ||||||||||||||||||
Sbjct: 141664 gaagaagaagaaaggaagtccgtatggatcagcagaggctcagaaaacag 141615



 Score = 85.7 bits (43), Expect = 7e-14
 Identities = 43/43 (100%)
 Strand = Plus / Minus


Query: 504     tggttccctgtcagacaagcgatttctgtttacctccaatggt 546
```

```
              ||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 150212 tggttccctgtcagacaagcgatttctgtttacctccaatggt 150170
```

```
   Database: Homo_sapiens.latestgp.fa
     Posted date:  Jul 8, 2003 12:51 PM
   Number of letters in database: 200,800,637,119
   Number of sequences in database:  26,679

Lambda      K        H
    1.37     0.711      1.31

Gapped
Lambda      K        H
    1.37     0.711      1.31


Matrix: blastn matrix:1 -3
Gap Penalties: Existence: 0, Extension: 0
Number of Hits to DB: 0
length of query: 2810
length of database: 200,800,637,119
effective HSP length: 22
effective length of query: 1382
effective search space used:        0
T: 0
A: 0
X1: 0 ( 0.0 bits)
X2: 20 (39.6 bits)
S1: 12 (24.3 bits)
S2: 38 (75.8 bits)
```